

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A ~~network system~~ for locating a wireless tag within a layer having a plurality of layer units, said ~~network-layer~~ comprising a plurality of independent wireless nodes, each node being included in a ~~layer or~~ respective layer unit ~~for installation inside a building and~~ configured to be wirelessly connectable to at least one other node, such that when said ~~layer or~~ layer units are installed in a layer, said plurality of nodes have a determinable spaced arrangement, and provide overlapping wireless ~~coverage for locating~~feedback to said tag by reference to said spaced arrangement,

wherein the feedback from said plurality of nodes is used to determine a location of the tag.

2. (Currently amended) A ~~network~~ The system according to claim 1, wherein said layer comprises a floor covering.

3. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer comprises a carpet underlay.

4. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer units include tiles for covering a floor.

5. (Currently amended) ~~A network~~ The system according to claim 1, wherein said layer units include tiles for covering a ceiling.

6. (Currently amended) ~~A network~~ The system according to claim 1, wherein said spaced arrangement comprises a regular pattern of nodes.

7. (Currently amended) ~~A network~~ The system according to claim 1, wherein each wireless node includes means for receiving a wireless signal and means for transmitting a wireless signal.

8. (Currently amended) ~~A network~~ The system according to claim 1, wherein each wireless node includes means for determining a range to a ~~neighbouring~~neighboring wireless mode.

9. (Currently amended) ~~A network~~ The system according to claim 8, wherein said means for determining a range comprises means for determining a time of arrival of a received signal.

10. (Currently amended) ~~A network~~ The system according to claim 8, wherein said means for determining a range comprises means for determining a value of signal strength of a received signal.

11-12. (Canceled)

13. (Currently amended) ~~A network~~ The system according to claim ~~11~~ 1 further comprising means for generating power for a ~~said~~ wireless ~~node~~ nodes.

14. (Currently amended) ~~A network or a network element~~ The system according to claim 13, wherein said means for generating power comprises a piezoelectric crystal.

15. (Currently amended) ~~A network~~ The system according to claim ~~11 or a network element~~ according to claim ~~12~~ 1, further comprising means for receiving power for a ~~said~~ wireless ~~node~~ nodes

from an external source.

16 (Canceled)

17. (Currently amended) A method of locating a wireless tag within a layer having a plurality of layer units using a network comprising a plurality of independent wireless nodes, each node being included in a ~~layer or~~ respective layer unit ~~installed inside a building~~, each node being and configured to be wirelessly connectable to at least one other node, the method comprising the acts of:

determining a spaced arrangement of said plurality of wireless nodes; and

~~determining the location of~~ providing overlapping wireless feedback to said wireless tag from said plurality of wireless nodes with reference to said spaced arrangement; and

determining a location of the tag using the feedback from said plurality of nodes.

18. (Currently amended) A The method according to claim 17, wherein said act of determining said spaced arrangement of said

wireless nodes comprises acts of:

transmitting ~~a first~~ at least one message from a first node  
said ~~first~~ at least one message identifying said first node;

noting a time of arrival of said ~~first~~ at least one message at  
a second node and transmitting ~~a second~~ at least one message from  
said second node, said ~~second~~ at least one message from said second  
node identifying said first and second nodes, the time of arrival  
of said ~~first~~ at least one message from said first node and a time  
of transmission of said ~~second~~ at least one message from said  
second node.

19. (Currently amended) A ~~The~~ method according to claim 18,  
~~further comprising: transmitting a~~ wherein the at least one message  
from said first node includes information identifying the location  
of said first node within said spaced arrangement.

20. (Currently amended) A ~~The method of operating a wireless~~  
~~node included in a layer or respective layer unit installed inside~~  
~~a building and configured to be wirelessly connectable to at least~~  
~~one other node, the method comprising:~~ according to claim 17,  
further comprising acts of:

co-operating with said at least one other node so as to  
determine location of said wireless node within a spaced  
arrangement of wireless nodes; and

co-operating with a wireless tag so as to determine location  
of said wireless tag with reference to said spaced arrangement of  
wireless nodes.

21. (Currently amended) A computer ~~program~~ readable medium  
comprising a program of instructions which, when executed by data  
processing apparatus causes said data processing apparatus to  
perform the method according to claim 20.

22. (New) The network or a network element according to claim  
15, wherein said means for receiving power comprises inductive  
means.